

PATENT ABSTRACTS OF JAPAN

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(21)Application number : 63-109146

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(54) PRODUCTION OF CROSSLINKED ELASTOMER

(57)Abstract:

PURPOSE: To obtain a crosslinked elastomer of excellent elastomer properties in good efficiency without causing rapid vulcanization reaction, scorching and foaming by kneading an unvulcanized elastomer with specified capsules containing a peroxide as a core material.

CONSTITUTION: A peroxide-vulcanizable unvulcanized elastomer, for example, an acrylonitrile/butadiene copolymer, an ethylene/propylene copolymer, a fluorinated synthetic rubber or a silicon rubber, is kneaded with capsules each consisting of a core material comprising a peroxide such as benzoyl peroxide and a wall material comprising a urea resin or a melamine resin to obtain a crosslinked elastomer. It is desirable in this case that, after the unvulcanized elastomer is masticated, 0.1-50pts.wt. capsules are added to 100pts.wt. elastomer at about 20°C. When the peroxide has a 10-hr half life temperature of 50-180°C, it is desirable that the vulcanization is performed at 100-150°C for about 20-100hr.

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File 351:Derwent WPI 1963-2004/UD,UM &UP=200463

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Crosslinked elastomer prodn. - by blending and kneading precured elastomer and capsules contg. curing agent, etc.

Patent Assignee: TOA GOSEI CHEM IND LTD (TOAG)

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 1279930	A	19891110	JP 88109146	A	19880506	198951 B
JP 2513269	B2	19960703	JP 88109146	A	19880506	199631

Priority Applications (No Type Date): JP 88109146 A 19880506

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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JP 1279930	A	8			
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JP 2513269	B2	6	C08J-003/24	Previous Publ. patent JP 1279930
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Abstract (Basic): JP 1279930 A

Pre-cured elastomer and capsules contg. curing agent, are blended

and kneaded under heating to produce crosslinked elastomer. The capsules are prepd. from peroxide as core material, and urea (U) or melamine (M) resin as envelop material.

Pre-cured elastomer resin are NB-, Ep-, F- and Si rubbers. Pref. amt. of capsules are 0.1-50 wt.pt to 100 wt.pt. of pre-cured elastomer.

USE/ADVANTAGE - Capsules comprising peroxide, enveloped tightly with urethane, have fine powder states and are easily dispersed into pre-cured resin material. So the crosslinking reaction of elastomer compsn. starts with soft and slow, and can be avoided from scorching or foaming of elastomer resin by heating and kneading, and can produce excellent prods. with ease.

(Dwg.0/0)

Title Terms: CROSSLINK; ELASTOMER; PRODUCE; BLEND; KNEAD; PRECURED;

ELASTOMER; CAPSULE; CONTAIN; CURE; AGENT

Derwent Class: A21; A32

International Patent Class (Main): C08J-003/24

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